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	Application No.	Applicant(s)
	10/619,648	HETZLER ET AL.
Notice of Allowability	Examiner	Art Unit
	Mujtaba K. Chaudry	2133
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet with the S (OR REMAINS) CLOSED in this a S or other appropriate communication and the subject 3 and MPEP 1308.	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed 2/2</u>	<u>25/2007</u> .	
2. The allowed claim(s) is/are <u>1-6 and 8-12</u> .		
3. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies of the certified copies of the priority documents have 2. Certified copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submined INFORMAL PATENT APPLICATION (PTO-152) which give 1. CORRECTED DRAWINGS (as "replacement sheets") must be submined 1. Corrected by the Notice of Draftspell (a) including changes required by the Notice of Draftspell (b) including changes required by the attached Examined Paper No./Mail Date	ve been received. ve been received in Application No. ocuments have been received in this " of this communication to file a repl MENT of this application. mitted. Note the attached EXAMINE ves reason(s) why the oath or decla ust be submitted. rson's Patent Drawing Review (PTC r's Amendment / Comment or in the 1.84(c)) should be written on the draw	s national stage application from the y complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient. D-948) attached Office action of
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 	OSIT OF BIOLOGICAL MATERIAL FFOR THE DEPOSIT OF BIOLOGI	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal 6. ☑ Interview Summal Paper No./Mail D 7. ☑ Examiner's Amen	ry (PTO-413), ate <u>2/26/2007</u>
Paper No./Mail Date		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	ö. ⊠ Examiner's Stater	nent of Reasons for Allowance
000 l 2/26/67	9.	GUY LAMARRE PRIMARY EXAMINER
U.S. Petent and Thedemark Office PTOL-37 (Rev. 08-06)	Notice of Allowshills	Dod of Describio (Martin Co.) 00077077
1 101-01 (Ites, 00-00)	Notice of Allowability	Part of Paper No./Mail Date 20070226

DETAILED ACTION

Applicants' response filed February 25, 2007 has been received.

- Amendments filed after final are considered and entered.
- Claims 1-6 and 8-12 are allowed.
- Minor amendment to claim 9 is made.

Application allowed.

EXAMINER'S AMENDMENT

An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Joseph Curtin on February 26, 2007.

Please amend the application as follows:

Please replace claim 9 with:

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9. The data storage subsystem according to claim 1, wherein the read operations read data from the data storage units that are not being updated, and the four write operations write data to the data storage unit being updated and to the three check storage units.

REASONS FOR ALLOWANCE

Claims 1-6 and 8-12 are allowed. The following is an Examiner's statement of reasons for allowance:

Independent claim 1 of the present application teaches a data storage subsystem, comprising: three data storage units; three check storage units; and an array controller coupled to the three data storage units and the three check storage units, the array controller determining the contents of the check storage units so that any three erasures of the data storage units and the check storage units can be corrected by the array controller, the array controller updating a block of data contained in any one of the data storage units and the check storage units using only six IO operations while determining the contents of the check storage units so that any three erasures of the data storage units and the check storage units can be corrected by the array controller. The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "...the array controller updating a block of data contained in any one of the data storage units and the check storage units using only six IO operations while determining the contents of the check storage units so that any three erasures of the data storage units and the check storage units

Dependent claims 2-6 and 8-12 depend from allowable independent claim 1 and inherently include limitations therein and therefore are allowed as well.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mujtaba K. Chaudry whose telephone number is 571-272-3817. The examiner can normally be reached on Mon-Thur 9-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on 571-272-3819.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mujtaba Chaudry Art Unit 2133 February 26, 2007